

## PRODUCT DESCRIPTION

PlekoGrout MC is a single component, high strength, non-shrink, fluid micro concrete for all types of repair and grouting. It is composed of hydraulic binders, selected aggregates, and special chemical additives. It is formulated for use at plastic or fluid consistency and is a durable, non-shrink, chemical resistant and easy to use by just adding water, improving on-site quality control.

## USES

PlekoGrout MC is used for general purpose grouting where high compressive strength is required in large volumes and when it's essential to eliminate shrinkage, in applications such as: bedding, void filling, jacketing, grouting, anchoring base plates, masts, fences, shutter ties; pre cast construction, machine foundations, bridge bearing applications and general concrete repairs

## APPROVED SUBSTRATES

PlekoGrout MC can be used onto properly prepared concrete, bolts, plates...

## PACKAGING

25 kg or 50 kg in multiply paper bag.

## YIELD

One 25kg bag mixed with 4.5-5.25 liters of water will yield approximately 13.5-14 liters of micro-concrete.

Manufacturer does not warrant square meter coverage, which can vary greatly according to application techniques.

## PROPERTIES

- **Economical**
- **High Strength**
- **Shrinkage Compensated**
- **Early Strength Development**
- **Enhanced Durability**
- **Factory Controlled Quality**

## TECHNICAL DATA

Appearance	Free-flowing Grayish powder
Bulk Density (Kg/L $\pm$ 0.5)	1.57
Particule Size	Up to 5mm
Water Demand (%)	16-17.5
Application Thickness (mm):	50 to 250
Tensile Strength* (N/mm <sup>2</sup> )	$\geq$ 5
Compressive Strength* (N/mm <sup>2</sup> )	$\geq$ 60
Flexural Strength* (N/mm <sup>2</sup> )	$\geq$ 9

\*after 28 days

## INSTALLATION

### SUBSTRATE PREPARATION

Surface must be sound, clean, dry, free of bond-inhibiting materials such as paint, grease, oil, efflorescence, form release agents and curing compounds. It should have been sufficiently cured in a way that any shrinkage has already occurred.

Corroded steel must be exposed and cleaned around its whole circumference and treated by power tool, metal brush, or abrasive blasting to remove all rust particles. Reinforcing steel should be prepared to SA 2½ and treated with a suitable anticorrosion coating.

Saturate the substrate with clean water to provide a saturated surface dry condition, if possible soak surface for few hours before application. Any surface water should be removed using an oil free compressed air.

### MIXING

Use a clean container free of all foreign substances for preparing and mixing material. Use a heavy duty electric drill and mixing paddle; forced action mixer or pan mixers can also be used. Add powder to the water in small

increments while mixing thoroughly to achieve lump-free consistency. Avoid working excessively to prevent air entrapment. Let mixture set for 5 minutes and re-temper. If needed add water (within limits given) to adjust consistency. Do not add water once the mixed mortar starts to harden.

## APPLICATION

Ensure formwork is secure and watertight to prevent movement and leaking during placing and curing. Sufficient grout must be prepared before starting. Pour PlekoGrout MC into the prepared area in a way that the grout has the shortest distance to travel. Ensure that air displaced by the grout is allowed to escape. Pour the grout continuously maintaining sufficient hydrostatic head of pressure to keep the mortar flowing. For large areas it is recommended to use pumping equipment's.

For single layer pouring thicker than recommended limit addition of single size, clean coarse aggregates (up to 1:1 ratio) is possible. Trials are recommended to confirm suitability of aggregates to be employed.

## CURING

Exposed areas should be cured by spraying clean potable water for 3 to 5 days and covering with plastic sheeting. In hot and windy climate curing using a PlekoCure product is recommended.

## LIMITATIONS

Apply only to unfrozen surfaces above 4 °C (40°F). Maintain minimum 4 °C (40°F) ambient temperature for 24 hours after application. For ambient temperatures above 35°C, use cool water for mixing to maintain mortar temperature below 30°C.

Do not mix with any additive or product unless recommended by Pleko.

Pleko bears no responsibility for the defects due to the improper or non-recommended use of the product.

## CLEANING

While still fresh, soluble in water. Clean all equipment with water immediately after use. After hardening, tools should be cleaned mechanically.

## STORAGE

Store in cool, dry, well-ventilated area, protected from freeze, heat and direct sunlight and at a temperature between 4°C (40°F) and 38°C (100°F), in tightly sealed original container off the ground. Storage time must not exceed one year.

## HEALTH AND SAFETY

Avoid contact with eyes and skin. Prevent inhalation of dust.

The product contains cement powders which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning with soap and water. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting, in both cases seek medical attention.

The product is non-flammable

### Attention

This product is intended for use by qualified professional contractors, as a component of a larger construction system and specification. It should be installed in accordance with given instructions and specifications. Information listed above reflects the criteria for our internal quality test and practical experience. Results depend on listed instructions and consumer skills and are therefore out of our responsibility whether expressed or implied. All values are valid for the product when dispatched from the plant. Technical data are generated under laboratory conditions, some variations are expected due to weather, site, and application conditions which are beyond the control of the manufacturer. We reserve the right to change any given specification without notice.